

Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Georgia-Pacific Wood Products LLC
Facility Name:	Georgia-Pacific Wood Products LLC - Jarratt
Facility Location:	116 S. Allen Road Jarratt, Virginia 23867
Registration Number:	50253
Permit Number:	PRO50253

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Sections I through XII)
State Only Enforceable Requirements (Section XIII)

September 7, 2004
Effective Date

September 7, 2009
Expiration Date

July 7, 2008
Permit Amended Date

Kyle I. Winter, P.E.
Deputy Regional Director

Signature Date

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Permit Conditions, 40 pages

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I. Facility Information

Permittee

Georgia-Pacific Wood Products LLC
133 Peachtree St. NE
Atlanta, Georgia 30303

Responsible Official

Mr. Timothy J. Kroll
Plant Manager

Facility

Georgia-Pacific Wood Products LLC - Jarratt
116 S. Allen Road
Jarratt, Virginia 23867

Contact Person

Kevin R. Kessler
QC/Environmental Manager
(434) 535-8541

County-Plant Identification Number: 51-081-0002

Facility Description: NAICS 321219 – Wood Product Manufacturing
SIC 2493 – Wood Product Manufacturing

The facility is a softboard sheathing manufacturing facility which is operated by Georgia-Pacific Wood Products LLC. The softboard sheathing manufacturing operations include wood chip blending, pulping, mat blending, forming, and trimming, board pressing, trimming operations, seal coating, and woodwaste handling operations. The major emission sources are the boiler and dryers.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment							
03	EP-15	Keeler Boiler No. 3 (1978)	86.61 MMBtu/hr	- PPC Industries ESP 11R-1220-27125 - Zurn-type multiclone MTSA-56-96YT	--	PM, PM-10, Particulate HAPs	5/15/08
Process Equipment							
F-B-16 F-B-17	Fugitive	Coal Handling (1978)	110 tons/hr	--	--	No Control	None
E-CP-2	CP-20	NW Silo Cyclone (1972)	60 tons/hr	--	--	No Control	None
E-CP-3	CP-21	NE Silo Cyclone (1972)	60 tons/hr	--	--	No Control	None
E-CP-4	CP-22	SW Silo Cyclone (1972)	60 tons/hr	--	--	No Control	None
E-CP-5	CP-29	#5 Refiner Cyclone (1972)	60 tons/hr	--	--	No Control	None
E-CP-6	CP-33	#1-4 Refiners Cyclone (1972)	60 tons/hr	--	--	No Control	None
F-CP-1	CP-2	Chip Unloading Hopper and Conveyor (1972)	60 tons/hr	--	--	No Control	None

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
F-CP-2	CP-4	Vibrating Screen (1972)	120 tons/hr	--	--	No Control	None
F-CP-3A	CP-7	Accepts Conveyor (1972)	120 tons/hr	--	--	No Control	None
F-CP-3B	CP-8	Transfer Conveyor (1972)	120 tons/hr	--	--	No Control	None
F-CP-4	CP-9	Pile/feeder blower (1972)	120 tons/hr	--	--	No Control	None
E-PP-11	Zone 1 Dryer	Dryer (Zone 1) 1987	12.9 tons/hr (37 mbf/hr) (3792 cfm/36" dia)	--	--	No Control	None
E-PP-12	Zone 2 Dryer	Dryer (Zone 2) (1987)	12.9 tons/hr (37 mbf/hr) (3792 cfm/36" dia)	--	--	No Control	None
E-PP-13	Zone 3 Dryer	Dryer (Zone 3) (1987)	12.9 tons/hr (37 mbf/hr) (3792 cfm/36" dia)	--	--	No Control	None
E-PP-7	PP-7	Vent, No. 5 refiner dump chest (1972)	6 tons/hr	--	--	No Control	None
E-PP-8	PP-5	Vent, main refiner chest (1972)	24 tons/hr	--	--	No Control	None
E-TS-1	EP-14	Trim Saws (2000)	--	Ducon Dust Collector	E-PL-39	PM, PM-10	None
E-PB-1	EP-16	Paint Spray Booth (1994)	3.8 gallons/min	--	--	VOC, PM, PM-10	7/22/94

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
F-HR-1	HR-1	Hot Roll Coating Operation (2003)	8400 square feet/hr	--	--	None	2/10/04

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

III. Fuel Burning Equipment Requirements – (EU ID#03)

A. Limitations

1. Particulate emissions from the No. 3 Keeler boiler shall be controlled by an electrostatic precipitator (ESP) and two (2) multicyclones in series. The ESP and multicyclones shall be provided with adequate access for inspection. An annual inspection shall be conducted on the multicyclones to ensure structural integrity.
(9 VAC 5-80-110, 9 VAC 5-80-1625, 9 VAC 5-80-1705, and Condition 2 of 5/15/08 Permit)
2. The approved fuel for the boiler is coal. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110, 9 VAC 5-80-1625, 9 VAC 5-50-50, and Condition 4 of 5/15/08 Permit)
3. During boiler startup, the permittee may use oil, oily rags, used oil absorbents, and wood scraps generated at the Georgia-Pacific Wood Products LLC – Jarratt plant as an acceptable alternative to the manufacturer's recommended materials for providing the initial fire to the boiler prior to combustion of coal.
(9 VAC 5-170-160)
4. The coal shall meet the specifications below:
COAL:
Maximum sulfur content per shipment: 1.0%
(as determined by ASTM D3177, D4239, or a DEQ-approved equivalent method)

Maximum ash content per shipment: 8.8%
(as determined by ASTM D3174, or a DEQ-approved equivalent method)

The permittee shall maintain records (supplier fuel analysis) of all coal shipments purchased. These records shall be available for inspection by the DEQ. Such records shall be current for the most recent five years.
(9 VAC 5-80-110, 9 VAC 5-80-1625, and Condition 6 of 5/15/08 Permit)
5. The No. 3 Keeler boiler shall consume no more than 28,711 tons of coal per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1625, 9 VAC 5-80-1705, and Condition 5 of 5/15/08 Permit)
6. The steam flow and operating steam pressure of the No. 3 boiler shall not exceed 85,000 pounds per hour (1-hr avg. with an interval of 15 minutes or less) and 340 psig, respectively. The steam flow, steam pressure, and feedwater temperature shall be continuously monitored and recorded to indicate hourly compliance with the boiler maximum rated capacity of 86.61 MMBtu/hr. These operating limits shall apply at all times except during startup, shutdown and malfunction. Whenever the boiler is in operation, the monitoring system shall be monitoring, except during periods of monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, and the monitoring system shall be capable of completing at least one cycle of operation (i.e., measuring and recording) every 15 minutes.
(9 VAC 5-80-110, 9 VAC 5-80-1625, 9 VAC 5-80-1705, and Condition 3 of 5/15/08 Permit)

7. Emissions from the operation of the No. 3 boiler shall not exceed the limits specified below:

Particulate Matter	20.0 lbs/hr	88.0 tons/yr
PM-10	14.5 lbs/hr	64.0 tons/yr
Sulfur Dioxide	128.2 lbs/hr	561.5 tons/yr
Nitrogen Oxides (as NO ₂)	51.0 lbs/hr	223.8 tons/yr
Carbon Monoxide	3.1 lbs/hr	13.5 tons/yr
Volatile Organic Compounds	0.6 lbs/hr	2.7 tons/yr
Lead	0.04 lbs/hr	0.18 tons/yr

(9 VAC 5-80-110, 9 VAC 5-80-1625, 9 VAC 5-80-1705, and Condition 7 of 5/15/08 Permit)

8. Visible emissions from each of the No. 3 boiler exhaust shall not exceed 20 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-50-80, 9 VAC 5-80-1705, and Condition 8 of 5/15/08 Permit)

9. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment, monitoring devices, and process equipment which affect such emissions:
- Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
 - Maintain an inventory of spare parts.
 - Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
 - Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training, and the nature of training.

Records of maintenance and training shall be maintained on the site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E and Condition 16 of 5/15/08 Permit)

B. Monitoring

- An annual internal inspection shall be conducted on the multicyclone by the permittee to insure structural integrity.
(9 VAC 5-80-110, 9 VAC 5-80-1625, 9 VAC 5-80-1705, and Condition 2 of 5/15/08 Permit)
- The permittee shall install differential pressure monitoring equipment on the multiclones and measure and record a baseline differential which is representative of the multiclones in proper working condition. The differential pressure shall be monitored and recorded on a weekly basis. If the differential pressure falls to less than 80% of the baseline

differential pressure, the permittee shall perform an inspection of the multiclones to determine the cause of the abnormal condition, and take steps to correct it.

(9 VAC 5-80-1180 and 9 VAC 5-50-260)

3. The No. 3 Keeler boiler stack shall be observed visually at least once each calendar week to determine if its emissions, excluding condensed water vapor/steam, are normal. Each unit observed having apparent abnormal visible emissions shall be followed up with a 40 CFR Appendix A Method 9 visible emissions evaluation unless the apparent abnormal condition is corrected as expeditiously as possible and recorded, and the apparent abnormal condition, its cause, and the corrective action measures taken are recorded. When conditions prevent taking opacity readings using 40 CFR 60 Appendix A Method 9, the permittee shall note the cause(s), such as: inclement weather conditions, steam plume interference, plume intermingling, and sun angle exceedance, and shall perform the Method 9 evaluation as soon as conditions permit.

(9 VAC 5-50-20)

4. The permittee shall use appropriate emission factors and throughput data to verify, on a monthly basis, that the annual (12-month) emission limits for SO₂, NO₂, CO, VOC, hydrogen chloride, and lead are not exceeded.

(9 VAC 5-80-110)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:
 - a. Annual throughput of coal for the No. 3 Keeler boiler, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - b. Coal shipments purchased, including sulfur content, ash content, and heating value, per shipment.
 - c. Records of steam flow, operating steam pressure and feedwater temperature verifying compliance with Condition III.A.6.
 - d. Calculation of monthly and annual emissions of SO₂, NO₂, CO, VOC, hydrogen chloride, and lead as specified in Condition III.B.4.
 - e. Differential pressure readings across the No. 3 Keeler boiler multiclones (recorded once per shift), and results of multiclone inspections.
 - f. Results of visible emissions observations, any subsequent Method 9 visible emission evaluations, the cause of any abnormal and excess visible emissions, corrective measures taken to correct the excess visible emissions, and records of conditions which prevent Method 9 visible emission evaluations in the event of an apparently abnormal visible emission condition.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110, 9 VAC 5-80-1625, and Condition 9 of 5/15/08 Permit)

2. The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boiler. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.

(9 VAC 5-80-110 and Condition 16 of 5/15/08 Permit)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports will be provided at the appropriate locations.

(9 VAC 5-50-30 F, 9 VAC 5-80-110, 9 VAC 5-80-1625, and Condition 10 of 5/15/08 Permit)

2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

E. Reporting

1. The permittee shall report the results of any 40 CFR Part 60, Appendix A Method 9 visible emissions evaluation performed in accordance with Condition III.B.3. If the test indicates that the boiler is out of compliance with the opacity standard, the source shall also report the length of time associated with any exceedance of the standard and the corrective action taken to correct the exceedance. This report shall be sent to the Director, Piedmont Regional Office.

(9 VAC 50-50-50 and 9 VAC 5-80-110 E)

IV. Process Equipment Requirements – (Chip Process, including cyclones, EU ID#E-CP-2 through E-CP-6, F-CP-1 and F-CP-4)

A. Limitations

1. Visible emissions from the Chip Process, including cyclones (EU ID#E-CP-2 through E-CP-6, F-CP-1 and F-CP-4) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity.
(9 VAC 5-40-80 and 9 VAC 5-80-110)

2. Emissions from the operation of the Chip Process, including cyclones (EU ID #E-CP-2 through E-CP-6, F-CP-1 and F-CP-4) shall not exceed the limits specified below:

Particulate Matter	0.05	gr/dscf	(9 VAC 5-40-2270)
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PM-10	0.05	gr/dscf	(9 VAC 5-40-2270)
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(9 VAC 5-40-2270 and 5-80-110)

B. Monitoring

1. The chip processing equipment (EU ID #E-CP-2 through E-CP-6, F-CP-1 and F-CP-4) shall be observed visually at least once each calendar week to determine if the equipment is operating properly. If there are visible emissions, the apparent abnormal condition shall be corrected as expeditiously as possible and the apparent abnormal condition, its cause, and the corrective action measures taken shall be recorded.
(9 VAC 5-50-20)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrated compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:
 - a. Current throughput capacity and emission factors for all significant equipment.
 - b. Results of visible emissions observations, the cause of any abnormal visible emissions, and corrective measures taken to correct the visible emissions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-40-30 and 9 VAC 5-80-110)

2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

E. Reporting

1. The permittee shall report any abnormal or excess visible emissions, the cause of such emissions, and corrective action taken. This report shall be sent to the Director, Piedmont Regional Office.
(9 VAC 50-50-50 and 9 VAC 5-80-110 E)

V. Process Equipment Requirements – (Dryer (Zones 1-3), EU ID#E-PL-11 through E-PL-13)**A. Limitations**

1. Visible emissions from the Zone 1 and Zone 2 Dryer stacks shall not exceed 50 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity.
(9 VAC 5-80-110)
2. Emissions from the operation of each of the Zone 1 and Zone 2 Dryer stacks shall not exceed the limits specified below:

Particulate Matter	22.6 lbs/hr	(9 VAC 5-40-260A)
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PM-10	22.6 lbs/hr	(9 VAC 5-40-260A)
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(9 VAC 5-40-260)

B. Monitoring

1. The Zone 1 and Zone 2 dryer stacks shall be observed visually at least once each calendar week to determine if visible emissions, excluding condensed water vapor/steam, are normal. Each unit observed having apparent abnormal visible emissions shall be followed up with a 40 CFR Appendix A Method 9 visible emissions evaluation unless the apparent abnormal condition is corrected as expeditiously as possible and recorded, and the apparent abnormal condition, its cause, and the corrective action measures taken are recorded. When conditions prevent taking opacity readings using 40 CFR 60 Appendix A Method 9, the permittee shall note the cause(s), such as: inclement weather conditions, steam plume interference, plume intermingling, and sun angle exceedance, and shall perform the Method 9 evaluation as soon as conditions permit.
(9 VAC 5-80-110 E)
2. In addition to the visual observations required by Condition V.B.1, the permittee shall conduct quarterly visible emissions evaluations on Zone1 and Zone 2 Dryer Stacks using 40 CFR 60, Appendix A Method 9, when valid Reference Method 9 parameters can be obtained. Records of these visible emissions evaluations shall be maintained on site and made available for inspection or submitted to DEQ upon request.
(9 VAC 5-80-110)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrated compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:
 - a. Records of current maximum throughput data and emission factors.
 - b. Results of visible emissions observations, any subsequent Method 9 visible emission evaluations, the cause of any abnormal and excess visible emissions, corrective measures taken to correct the excess visible emissions, and records of conditions which

prevent Method 9 visible emission evaluations in the event of an apparently abnormal visible emission condition.

- c. Results of any emissions testing.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

D. Testing

1. The permittee shall perform Method 5 and Method 202 stack tests on Zone 1 and Zone 2 Dryer stacks once every permit term (five years).
(9 VAC 5-80-110)
2. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-40-30 and 9 VAC 5-80-110)
3. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

E. Reporting

1. The permittee shall report the results of any 40 CFR Part 60, Appendix A Method 9 visible emissions evaluation performed in accordance with Condition V.B.1. If the test indicates that the either the Zone1 or Zone 2 Dryer is out of compliance with the opacity standard, the source shall also report the length of time associated with any exceedance of the standard and the corrective action taken to correct the exceedance. This report shall be sent to the Director, Piedmont Regional Office.
(9 VAC 5-80-110 E)
2. The results of the stack tests required by Condition V.D.1 shall be submitted to the Director, Piedmont Region within 45 days from the date the tests are conducted.
(9 VAC 5-80-110)

VI. Process Equipment Requirements – (Trim Saws EU ID #E-TS-1)

A. Limitations

1. Visible emissions from the trim saws shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity.
(9 VAC 5-40-80 and 9 VAC 5-80-110)

2. Emissions from the operation of the trim saws shall not exceed the limits specified below:

Particulate Matter	0.05	gr/dscf	(9 VAC 5-40-2270)
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PM-10	0.05	gr/dscf	(9 VAC 5-40-2270)
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(9 VAC 5-40-2270 and 5-80-110)

B. Monitoring

1. The emissions from the Ducon dust collector (E-PL-39) shall be observed visually at least once each calendar week to determine if the equipment is operating properly. If there are visible emissions, the apparent abnormal condition shall be corrected as expeditiously as possible and the apparent abnormal condition, its cause, and the corrective action measures taken shall be recorded.
(9 VAC 5-50-20)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:
 - a. Current throughput capacity and emission factors for all significant equipment.
 - b. Results of visible emissions observations, the cause of any abnormal visible emissions, and corrective measures taken to correct the visible emissions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-40-30 and 9 VAC 5-80-110)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

E. Reporting

1. The permittee shall report any abnormal or excess visible emissions, the cause of such emissions, and corrective action taken. This report shall be sent to the Director, Piedmont Regional Office.
(9 VAC 50-50-50 and 9 VAC 5-80-110 E)

VII. Process Equipment Requirements – (Paint Spray Booth, EU ID# EP-16)**A. Limitations**

1. Particulate emissions from the spray booth shall be controlled by appropriate filters and operational techniques to minimize over spray. The spray booth shall be provided with adequate access for inspection. The filter shall be equipped with a device to measure the differential pressure drop across the filter during periods of operation. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-110 and Condition 2 of the 7/22/94 Permit)
2. Volatile Organic Compound emissions from the spray booth shall be minimized by using low VOC coatings containing no more than 0.005 lb VOC/gal, as applied.
(9 VAC 5-80-110 and Condition 5 of the 7/22/94 Permit)
3. The spray booth shall consume no more than 200,000 gallons of coating per year, calculated as the sum of each consecutive 12-month period.
(9 VAC 5-80-110, and Condition 6 of the 7/22/94 Permit)
4. Visible emissions from the spray booth shall not exceed five (5) percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80, 9 VAC 5-80-110, and Condition 9 of the 7/22/94 Permit)
5. Emissions from the operation of the spray booth shall not exceed the limits specified below:

Particulate Matter	6.0 lbs/hr	6.0 tons/yr	(9 VAC 5-50-260)
PM-10	6.0 lbs/hr	6.0 tons/yr	(9 VAC 5-50-260)
Volatile Organic Compounds	0.3 lbs/hr	0.5 tons/yr	(9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 9 of the 7/22/94 Permit)

B. Monitoring

1. The permittee shall perform monthly checks of the filters when the paint booth is in operation and maintain records of results and any repairs or replacements.
(9 VAC 5-80-1180 and Condition 2 of 7/22/94 Permit)
2. The spray booth emissions shall be observed visually at least once each month while the paint spray booth is in operation for at least a brief time period to determine whether the visible emissions are normal. If the spray booth is observed having apparent abnormal visible emissions shall be followed up with a 40 CFR Appendix A Method 9 visible emissions evaluation unless the apparent abnormal condition is corrected as expeditiously as possible and recorded, and the apparent abnormal condition, its cause, and the corrective action measures taken are recorded. When conditions prevent taking opacity readings using 40 CFR 60 Appendix A Method 9, the permittee shall note the cause(s), such as: inclement weather conditions, steam plume interference, plume intermingling, and sun angle exceedance, and shall perform the Method 9 evaluation as soon as conditions permit.
(9 VAC 5-50-20)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrated compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:
 - a. Monthly and annual throughput of coating (in gallons), and emissions (in tons) of VOC and particulate, calculated monthly as the sum of each consecutive twelve (12) month period.
 - b. Records of visible emissions evaluations.
 - c. Records of filter repair and replacement.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110, and Condition 11 of the 7/22/94 Permit)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-40-30 and 9 VAC 5-80-110)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

E. Reporting

1. The permittee shall report the results of any 40 CFR Part 60, Appendix A Method 9 visible emissions evaluation performed in accordance with Condition VII.B.2. If the test indicates that the spray booth is out of compliance with the opacity standard, the source shall also report the length of time associated with any exceedance of the standard and the corrective action taken to correct the exceedance. This report shall be sent to the Director, Piedmont Regional Office.
(9 VAC 50-50-50 and 9 VAC 5-80-110 E)

VIII. Process Equipment Requirements – (Hot Roll Coating Operation, EU ID#HR-1)

A. Limitations

1. Volatile organic compounds shall not be intentionally spilled, discarded to sewers, stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.
(9 VAC 5-80-110 and Condition 3 of the 07/22/05 Permit)
2. The production of softboard panels using prepress sealer shall not exceed 73.60 MMSF per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 4 of the 07/22/05 Permit)
3. Organic Hazardous Air Pollutant emissions from the operation of the hot roll coating operation shall not exceed 0.48 lb HAP/gallon. When the compliant material compliance option is used, thinners and cleaning materials shall contain no organic HAP.
(9 VAC 5-80-110 and Condition 6 of the 07/22/05 Permit)
4. Emissions from the operation of the hot roll coating operation shall not exceed the limits specified below:

 Volatile Organic Compounds 4.24 lbs/hr 18.62 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number VIII.A.2.

(9 VAC 5-80-110 and Condition 5 of the 07/22/05 Permit)

5. Except where this permit is more restrictive, the hot roll coating operation shall be operated in compliance with the requirements of 40 CFR 63, Subpart QQQQ.
(9 VAC 5-80-110 and Condition 7 of the 07/22/05 Permit)
6. The facility shall be subject to the General Provisions (Subpart A) of 40 CFR 63 as outlined in the table below:

**Table 1 to Subpart QQQQ of 40 CFR 63:
General Provisions Applicability to Subpart QQQQ**

Reference	Subject	Applies to Subpart QQQQ	Comment
63.1(a)(1)-(a)(14)	General Applicability	Yes.	
63.1(b)(1)-(3)	Initial Applicability Determination	Yes.	Applicability to Subpart QQQQ is also in § 63.4681.
63.1(c)(1)	Applicability After Standard Established	Yes.	
63.1(c)(2)-(3)	Applicability of Permit Program for Area Sources	No.	Area sources are not subject to Subpart QQQQ.
63.1(c)(4)-(5)	Extensions and Notifications	Yes.	
63.1(e)	Applicability of Permit Program Before	Yes.	

Reference	Subject	Applies to Subpart QQQQ	Comment
	Relevant Standard is Set		
63.2	Definitions	Yes.	Additional definitions are specified in § 63.4781.
63.3(a)-(c)	Units and Abbreviations	Yes.	
63.4(a)(1)-(5)	Prohibited Activities	Yes.	
63.4(b)-(c)	Circumvention/ Severability	Yes.	
63.5(a)	Construction/ Reconstruction	Yes.	
63.5(b)(1)-(6)	Requirements for Existing, Newly Constructed, and Reconstructed Sources	Yes.	
63.5(d)	Application for Approval of Construction/ Reconstruction	Yes.	
63.5(e)	Approval of Construction/ Reconstruction	Yes.	
63.5(f)	Approval of Construction/ Reconstruction Based on Prior State Review	Yes.	
63.6(a)	Compliance with Standards and Maintenance Requirements	Yes.	
63.6(b)(1)-(7)	Compliance Dates for New and Reconstructed Sources	Yes.	§ 63.4683 specifies the compliance dates
63.6(c)(1)-(5)	Compliance Dates for Existing Sources	Yes.	§ 63.4683 specifies the compliance dates
63.6(e)(1)-(2)	Operation and Maintenance	No	Section reserved.
63.6(e)(3)	SSMP	Yes.	Only sources using an add-on control device to comply with the standard must complete SSMP.
63.6(f)(1)	Compliance Except During SSM	Yes.	Applies only to sources using add-on control device to comply.
63.6(f)(2)-(3)	Methods for Determining Compliance	Yes.	
63.6(g)(1)-(3)	Use of an Alternative Standard	Yes.	Subpart KK does not require COMS.
63.6(h)	Compliance with Opacity/Visible Emission Standards	No.	Subpart QQQQ does not establish opacity standards and does not require continuous opacity monitoring systems (COMS).
63.6(i)(1)-(16)	Extension of Compliance	Yes.	
63.6(j)	Presidential Compliance Exemption	Yes.	
63.7(a)(1)	Performance Test Requirements	Yes.	Applies to all affected sources. Additional requirements for

Reference	Subject	Applies to Subpart QQQQ	Comment
			performance testing specified in §§ 63.4764, 63.4765, and 63.4766.
63.7(a)(2)	Performance Test Requirements-Dates	Yes.	Applies only to performance tests for capture system and control device efficiency at sources using these to comply with the standard.
63.7(a)(3)	Performance Tests required by the Administrator	Yes.	
63.7(b)-(e)	Performance Test Requirements	Yes.	Applies only to performance tests for capture system and control device efficiency at sources using these to comply with the standard.
63.7(f)	Use of Alternative Test Methods	Yes.	Applies to all test methods except those used to determine capture system efficiency.
63.7(g)-(h)	Data Analysis, Recordkeeping, Reporting, Waiver of Test	Yes.	Applies only to performance tests for capture system and control device efficiency at sources using these to comply with the standard.
63.8(a)(1)-(3)	Monitoring Requirements-Applicability	Yes.	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional standards for monitoring are specified in § 63.4768.
63.8(a)(4)	Additional Monitoring Requirements	No.	Subpart QQQQ does not require COMS
63.8(b)	Conduct of Monitoring	Yes.	Provisions for COMS are not applicable.
63.8(c)(1)-(3)	CMS Operation and Maintenance	Yes.	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional standards for monitoring are specified in § 63.4768.
63.8(c)(4)	CMSs	No.	§ 63.4768 specifies the requirements for the operation of CMS for capture systems and add-on control devices at sources using these to comply.
63.8(c)(5)	COMS	No.	Subpart QQQQ does not have opacity for visible emission standards.
63.8(c)(6)	CMS Requirements	No.	§ 63.4768 specifies the requirements for the operation of CMS for capture systems and add-on control devices at sources using these to comply.
63.8(c)(7)	CMS Out-of-Control periods	Yes.	Initial notification submission date extended.
63.8(c)(8)	CMS Out-of-Control Periods Reporting	No.	§ 63.4720 requires reporting of CMS out-of-control periods.
63.8(d)-(e)	Quality Control Program	No..	Subpart QQQQ does not require the use of continuous emissions monitoring systems.

Reference	Subject	Applies to Subpart QQQQ	Comment
63.8(f)(1)-(5)	Use of an Alternative Monitoring Method	Yes.	
63.8(f)(6)	Alternative to Relative Accuracy Test	No.	Subpart QQQQ does not require the use of continuous emissions monitoring systems.
63.8(g)(1)-(5)	Data Reduction	No.	§§ 63.4767 and 63.4768 specify monitoring data reduction.
63.9(a)-(d)	Notification Req'mts	Yes.	
63.9(e)	Notification of Performance Test	Yes.	Applies only to capture system and add-on control device performance tests at sources using these to comply with the standard.
63.9(f)	Notification of VE/Opacity Test	No.	Subpart QQQQ does not have opacity or visible emission standards.
63.9(g)(1)-(3)	Add'l Notification When Using CMS	No.	Subpart QQQQ does not require the use of continuous emissions monitoring systems.
63.9(h)	Notification of Compliance Status	Yes.	§ 63.4710 specifies the dates for submitting the notification of compliance status.
63.9(i)	Adjustment of Submittal Deadlines	Yes.	
63.9(j)	Change in Previous Information	Yes.	
63.10(a)	Recordkeeping/Reporting	Yes.	
63.10(b)(1)	General Recordkeeping	Yes.	Additional requirements are specified in §§ 63.4730 and 63.4731.
63.10(b)(2)(i)-(v)	Recordkeeping relevant to SSM	Yes.	Requirements for SSM records only apply to add-on control devices used to comply with the standard.
63.10(b)(2)(vi)-(xi)		Yes.	
63.10(b)(2)(xii)	Records	Yes.	
63.10(b)(2)(xiii)		No.	Subpart QQQQ does not require opacity and visible emissions evaluations.
63.10(b)(2)(xiv)		Yes.	
63.10(b)(3)	Recordkeeping requirements	Yes.	
63.10(c)(1)-(6)	Add'l Recordkeeping Req'mts for Sources with CMS	Yes.	
63.10(c)(7)-(8)		No.	The same records are required in § 63.4720(a)(7).
63.10(c)(9)-(15)		Yes.	
63.10(d)(1)	General Reporting Requirements	Yes.	Additional requirements are specified in § 63.4720.
63.10(d)(2)	Report of Performance Test Results	Yes.	Additional requirements are specified in § 63.4720(b).
63.10(d)(3)	Reporting VE Observations	No.	Subpart QQQQ does not require opacity or visible emissions observations.
63.10(d)(4)	Progress Reports for Sources with	Yes.	

Reference	Subject	Applies to Subpart QQQQ	Comment
	Compliance Extensions		
63.10(d)(5)	SSM Reports	Yes.	Applies only to add-on control devices at sources using these to comply with the standard.
63.10(e)(1)-(2)	Additional CMS Reports	No.	Subpart QQQQ does not require the use of continuous emissions monitoring systems.
63.10(e)(3)	Excess Emission Reports	No.	§ 63.4720 (b) specifies the contents of periodic compliance reports.
63.10(e)(4)	COMS Data Reports	No.	Subpart QQQQ does not specify requirements for opacity or COMS.
63.10(f)	Recordkeeping/Reporting Waiver	Yes.	
63.11	Control Device Requirements/Flares	No.	Subpart QQQQ does not specify the use of flares for compliance.
63.12	State Authority and Delegations	Yes.	
63.13	Addresses	Yes.	
63.14	Incorporation by Reference	Yes.	Test Methods ANSI/ASME PTC 19.10-1981, ASTM D2697-86 (Reapproved 1998), ASTM D6093-97 (incorporated by reference, see § 63.14).
63.15	Availability of Information	Yes.	

(9 VAC 5-60-90)

B. Monitoring

1. The initial compliance period begins on the date of startup and ends on the last day of the 12th month following startup. If startup occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next 12 months.

(9 VAC 5-80-110 and Condition 8 of the 07/22/05 Permit)

2. The permittee must use either the compliant material option or the emission rate without add-on controls option for the hot roll coating operation. For the compliant material option, the initial compliance demonstration includes the calculations according to 40 CFR 63.4741 and supporting documentation showing that during the initial compliance period, no coating was used with an organic HAP content that exceeded the emission limit contained in Condition VIII.A.3, and that no thinners or cleaning materials were used that contained organic HAP. For the emission rate without add-on controls option, the permittee shall determine the mass of organic HAP emissions and volume of coating solids used each month and then calculate a 12-month organic HAP emission rate at the end of the initial 12-month compliance period. The initial compliance demonstration includes the calculations according to 40 CFR 63.4751 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the emission limit contained in Condition VIII.A.3.

(9 VAC 5-80-110 and Condition 9 of the 07/22/05 Permit)

3. To demonstrate continuous compliance (with the compliant material option), the permittee shall use no coating for which the organic HAP content determined using Equation 2 of 40 CFR 63.4741 exceeds the emission limit contained in Condition VIII.A.3. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in Condition VIII.B.1 is the end of a compliance period consisting of that month and the preceding 11 months.
(9 VAC 5-80-110 and Condition 10 of the 07/22/05 Permit)
4. To demonstrate continuous compliance (with the emission rate without add-on controls option), the organic HAP emission rate for each compliance period, calculated using Equation 3 of 40 CFR 63.4751, must be less than or equal to the emission limit contained in Condition VIII.A.3. A compliance period consists of 12 months. Each month after then end of the initial compliance period described in Condition VIII.B.1 is the end of a compliance period consisting of that month and the preceding 11 months.
(9 VAC 5-80-110 and Condition 11 of the 07/22/05 Permit)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrated compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:
 - a. Annual production in square feet of softboard panels processed by the hot roll coating operation calculated monthly as the sum of each consecutive 12-month period.
 - b. Monthly and annual emissions in pounds of HAP. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.
 - c. A copy of each notification and report submitted in compliance with 40 CFR 63 Subpart QQQQ.
 - d. A current copy of information provided by materials suppliers or manufacturers, including but not limited to the Material Safety Data Sheets, manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner, and cleaning material and the volume fraction of coating solids for each coating. If the permittee conducts testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, then a copy of the complete test report is required. If information is provided by the manufacturer or supplier, the permittee may keep only the summary sheet of results provided by the manufacturer or supplier. In that case, the permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier.
 - e. For each compliance period, the permittee shall keep the following records:
 - (1) A record of the coating operations at which each compliance option was used and the time periods (beginning and ending dates and times) that each option was used.
 - (2) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of 40 CFR 63.4741.
 - (3) For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners, and

cleaning materials used each month, using Equations 1, 1A through C, and 2 of 40 CFR 63.4751; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.4751(e)(4); the calculation of the total volume of coating solids used each month, using Equation 2 of 40 CFR 63.4751; and the calculation of each 12-month organic HAP emission rate, using Equation 3 of 63.4751.

- f. A record of the name and volume of each coating, thinner, and cleaning material used during each compliance period.
- g. A record of the mass fraction of organic HAP for each coating, thinner, and cleaning material used during each compliance period.
- h. A record of the volume fraction of coating solids for each coating used during each compliance period.
- i. A record of the density for each coating used during the compliance period; and, if the emission rate without add-on control option is used, the density for each thinner and cleaning material used during each compliance period.
- j. If an allowance is used in Equation 1 of 40 CFR 63.4751 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to 40 CFR 63.4751(e)(4), the following records must be kept:
 - (1) The name and address of each TSDF to which waste materials for which an allowance was taken were sent; a statement of which subparts under 40 CFR parts 262, 264, 265 and 266 apply to the facility; and the date of each shipment.
 - (2) Identification of the coating operations producing waste materials included in each shipment and the month or months in which the allowance was taken for these materials in Equation 1 of 40 CFR 63.4751.
 - (3) The methodology used in accordance with 40 CFR 63.4751(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.
- k. Records of the date, time, and duration of each deviation from the standard contained in Condition VIII.A.3.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 12 of the 07/22/05 Permit)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing stack or duct that is free from cyclonic flow. Test ports shall be provided at the appropriate locations.

(9 VAC 5-50-30, 9 VAC 5-80-110 and Condition 13 of the 07/22/05 permit)

2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

E. Reporting

1. The permittee shall submit semiannual compliance reports for the hot roll coating operation according to the following requirements. The semiannual compliance reporting requirements may be satisfied by reports required under 40 CFR Part 70 when the facility obtains a Title V permit, as specified in Condition VIII.E.1.b.
 - a. Unless otherwise approved by the Director, Piedmont Region, the permittee shall prepare and submit each semiannual compliance report according to the dates specified in Condition VIII.E.1.a(1)-(4):
 - (1) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in Condition VIII.B.1 that applies to the hot roll coating operation and ends on June 30 or December 1, whichever occurs first following the end of the initial compliance period.
 - (2) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 to December 31.
 - (3) Each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
 - b. Each facility that has obtained a title V operating permit pursuant to 40 CFR part 70 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A). If a facility submits a semiannual compliance report pursuant to this section along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the semiannual compliance report includes all required information concerning deviations from any emission limitation in this subpart, its submission shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation the facility may have to report deviations from permit requirements to DEQ.
 - c. The semiannual compliance report must contain the information specified in Condition VIII.E.1.c(1)-(5), and the information that is specified in Condition VIII.E.1.d-f that is applicable for the compliance period.
 - (1) Company name and address.
 - (2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - (3) Date of the report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will

be based on the last 12 months of data prior to the date of each monthly calculation.

- (4) Identification of the compliance option or options used during the reporting period. If the permittee switched between compliance options during the reporting period, the report must include the beginning and ending dates that each option was used.
 - (5) If the emission rate without add-on controls option was used, the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.
- d. **No deviations.** If there were no deviations from the emission limitations in Condition VIII.A.3, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period.
- e. **Deviations: compliant material option.** If the compliant material option was used, and there was a deviation from the emission limit contained in Condition VIII.A.3, the semiannual compliance report must contain the following information:
- (1) Identification of each coating used that deviated from the emission limit, each thinner or cleaning material used that contained organic HAP, and the dates and time periods each was used.
 - (2) The calculation of the organic HAP content (using Equation 2 of 40 CFR 63.4741) for each coating identified in Condition VIII.E.1.e(1). It is not necessary to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).
 - (3) The determination of mass fraction of organic HAP for each coating, thinner, and cleaning material identified in Condition VIII.E.1.e(1). It is not necessary to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).
 - (4) A statement of the cause of each deviation.
- f. **Deviations: emission rate without add-on controls option.** If the emission rate without add-on controls option was used, and there was a deviation from the emission limit contained in Condition VIII.A.3, the semiannual compliance report must contain the following information:
- (1) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the emission limit contained in Condition VIII.A.3.
 - (2) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred, to include the calculations for Equations 1, 1A through 1C, 2, and 3 in 40 CFR 63.4751; and if applicable, the calculation used to determine the mass of organic HAP in waste materials according to 40 CFR 63.4751(e)(4). It is not necessary to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).

(9 VAC 5-60-120 and Condition 15 of the 07/22/05 Permit)

IX. Facility Wide Conditions

A. Limitations

1. In order to minimize the duration and frequency of excess emissions, including visible emissions, due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to the DEQ upon request.
 - b. Maintain an inventory of spare parts that are needed to minimize duration of air pollution control equipment breakdowns.

(9 VAC 5-50-20, 9 VAC 5-80-110, Condition 15 of 10/30/01 Permit, and Condition 15 of 7/22/94 Permit)
2. The permittee shall have available written operating procedures for the related air pollution control equipment. Operators shall be trained in the proper operation of all such equipment and shall be familiar with the written operating procedures. These procedures shall be based on the manufacturer's recommendations, at minimum. The permittee shall maintain records of training provided, including names of trainees, date of training, and nature of training.

(9 VAC 5-50-20, and Condition 16 of 7/22/94 Permit)
3. **Existing Source Standard for Visible Emissions** – Except where otherwise specified in this permit, the permittee shall not cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 60% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.

(9 VAC 5-50-80 and 9 VAC 5-80-110)
4. **Start-up, Shutdown, and Malfunction** – At all times, including periods of startup, shutdown and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 and 9 VAC 5-80-110)

B. Monitoring

1. Each emissions unit subject to an opacity standard shall be observed visually at least once each calendar week to determine if its emissions, excluding condensed water vapor/steam, are normal. Each unit observed having apparent abnormal visible emissions shall be followed up with a 40 CFR Appendix A Method 9 visible emissions evaluation unless the apparent abnormal condition is corrected as expeditiously as possible and recorded, and the apparent abnormal condition, its cause, and the corrective action measures taken are recorded. When conditions prevent taking opacity readings using 40 CFR 60 Appendix A Method 9, the permittee shall note the cause(s), such as: inclement weather conditions,

steam plume interference, plume intermingling, and sun angle exceedance, and shall perform the Method 9 evaluation as soon as conditions permit.

(9 VAC 5-80-110)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:
 - a. Maintenance and operator training records for air pollution control equipment.
 - b. Opacity records.
 - c. Emissions data, including emission factors, and throughput data.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50 and 9 VAC 5-80-110)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.

(9 VAC 5-40-30, 9 VAC 5-50-30, and 9 VAC 5-80-110)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

E. Reporting

1. The permittee shall report the results of any 40 CFR Part 60, Appendix A Method 9 visible emissions evaluation performed in accordance with Condition IX.B.1. If the test indicates that any emissions unit is out of compliance with the opacity standard, the source shall also report the length of time associated with any exceedance of the standard and the corrective action taken to correct the exceedance. This report shall be sent to the Director, Piedmont Regional Office.

(9 VAC 5-80-110 E)

X. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation (9 VAC ____)	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
F-CP-2	Vibrating Screen	5-80-720 B	PM, PM-10	120 tons/hr
F-CP-3A	Accepts Conveyor	5-80-720 B	PM, PM-10	120 tons/hr
F-CP-3B	Transfer Conveyor	5-80-720 B	PM, PM-10	120 tons/hr
F-CP-5	NW Wood Chip Pile	5-80-720 B	PM, PM-10	60 tons/hr
F-CP-6	NC Wood Chip Pile	5-80-720 B	PM, PM-10	60 tons/hr
F-CP-7	NE Wood Chip Pile	5-80-720 B	PM, PM-10	60 tons/hr
F-CP-8	SW Wood Chip Pile	5-80-720 B	PM, PM-10	60 tons/hr
F-CP-9	SC Wood Chip Pile	5-80-720 B	PM, PM-10	60 tons/hr
F-CP-10	SE Wood Chip Pile	5-80-720 B	PM, PM-10	60 tons/hr
F-CP-11	Reclaim Hopper	5-80-720 B	PM, PM-10	60 tons/hr
E-PP-7	Vent, Main Refiner Chest	5-80-720 B	PM, PM-10, VOC	24 tons/hr
E-PP-8	Vent, #5 Refiner Chest	5-80-720 B	PM, PM-10, VOC	6 tons/hr
F-PP-12	Broke Tank	5-80-720 B	VOC	186,736 gallons
F-PP-13	White Water Surge Tank	5-80-720 B	VOC	186,736 gallons
E-CP-1	Re-chipper Cyclone	5-80-720 B	PM, PM-10	6 tons/hr
E-PL-9	Vacuum Tank	5-80-720 B	PM, PM-10	10,415 scfm
E-PL-10	Wet End Seal Fan Vent	5-80-720 B	PM, PM-10	6878 scfm
F-AP-14	Asphalt Piles	5-80-720 B	PM, PM-10	20 tons/hr
F-AP-15	Asphalt Unloading	5-80-720 B	PM, PM-10	20 tons/hr
F-AP-16	Hammer Mill	5-80-720 B	PM, PM-10	20 tons/hr

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

XI. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60, Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	This Subpart does not apply to the No. 3 Keeler boiler since the construction commenced before June 19, 1984.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

XII. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-

80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;
 - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
 - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.
7. One copy of the annual compliance certification shall be sent to EPA at the following address:
Clean Air Act Title V Compliance Certification (3AP00)
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029
(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Piedmont Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition IX.C.3 of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Piedmont Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Piedmont Regional Office.

(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.

(9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.

(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.

(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.

(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-

350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.

(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E and 9 VAC 5-40-20 E)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the

change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-190 C and 9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

XIII. State-Only Enforceable Requirements

A. Limitations

1. The coal shall meet the specifications below:

COAL:

Maximum chlorine content per shipment: 0.12%

(9 VAC 5-80-110, 9 VAC 5-80-1180, 9 VAC 5-50-260, and Condition 11 of 5/15/08 Permit)

2. Emissions from the operation of the No. 3 Keeler boiler shall not exceed the limits specified below:

Hydrogen Chloride 7.8 lbs/hr 34.1 tons/yr

(9 VAC 5-80-110, 9 VAC 5-80-1180, 9 VAC 5-50-260, and Condition 12 of 5/15/08 Permit)

B. Recordkeeping

1. The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:

- a. Coal shipments purchased, including chlorine content, per shipment.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110, 9 VAC 5-80-1180, 9 VAC 5-50-50, and Condition 13 of 5/15/08 Permit)